

FIG. 1A

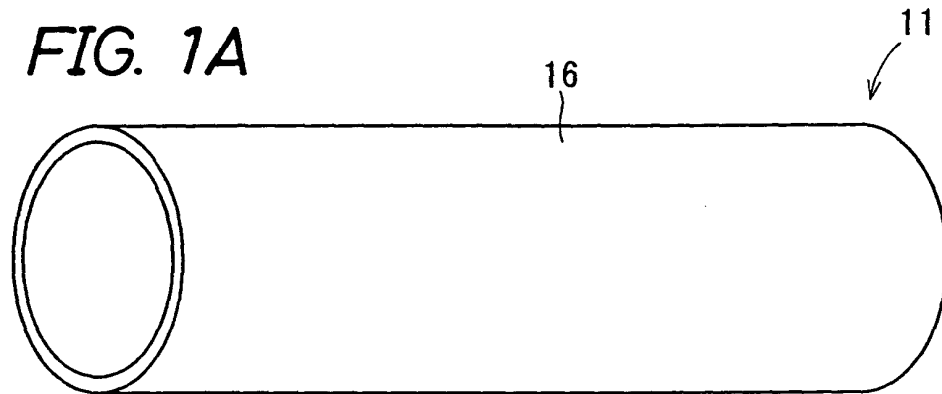


FIG. 1B

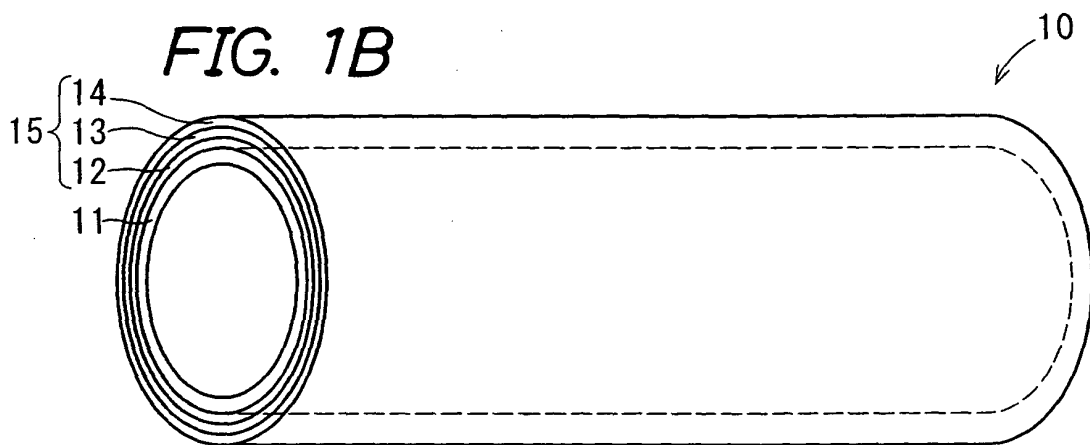
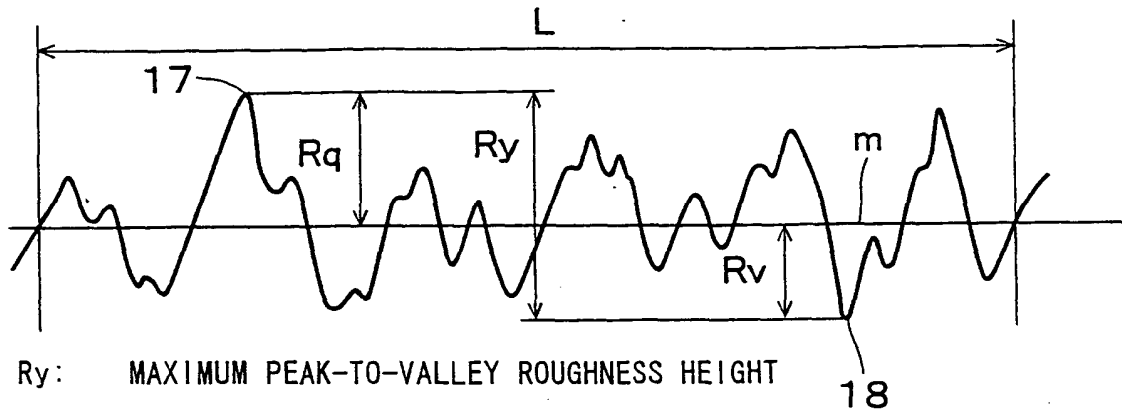


FIG. 2

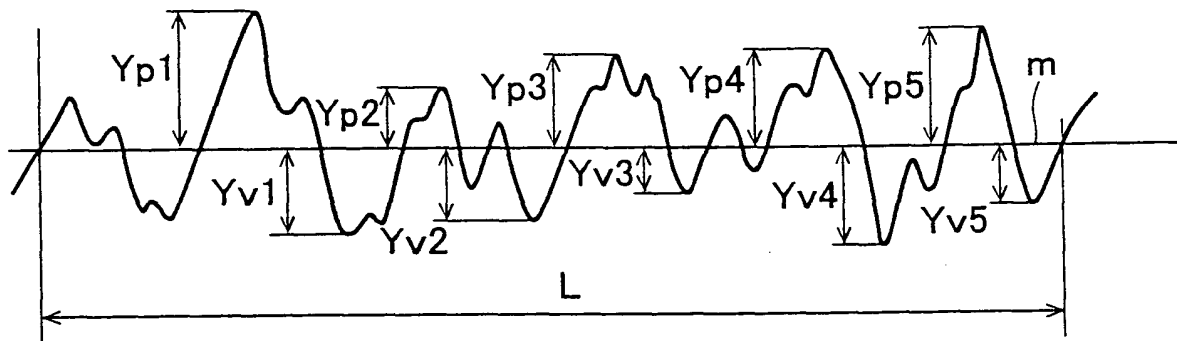


Ry: MAXIMUM PEAK-TO-VALLEY ROUGHNESS HEIGHT

m: AVERAGE LINE

L: REFERENCE LENGTH

FIG. 3



$$R_z = ( | Y_{p1} + Y_{p2} + Y_{p3} + Y_{p4} + Y_{p5} | + | Y_{v1} + Y_{v2} + Y_{v3} + Y_{v4} + Y_{v5} | ) / 5$$

Yp1, Yp2, Yp3, Yp4, Yp5: HEIGHT OF THE HIGHEST PEAK TO THE 5<sup>TH</sup> HIGHEST PEAK IN A TAKEN-OUT PORTION CORRESPONDING TO REFERENCE LENGTH L

Yv1, Yv2, Yv3, Yv4, Yv5: HEIGHT OF THE DEEPEST VALLEY TO THE 5<sup>TH</sup> DEEPEST VALLEY IN A TAKEN-OUT PORTION CORRESPONDING TO REFERENCE LENGTH L

Rz: TEN-POINT AVERAGE ROUGHNESS

m: AVERAGE LINE

L: REFERENCE LENGTH

FIG. 4

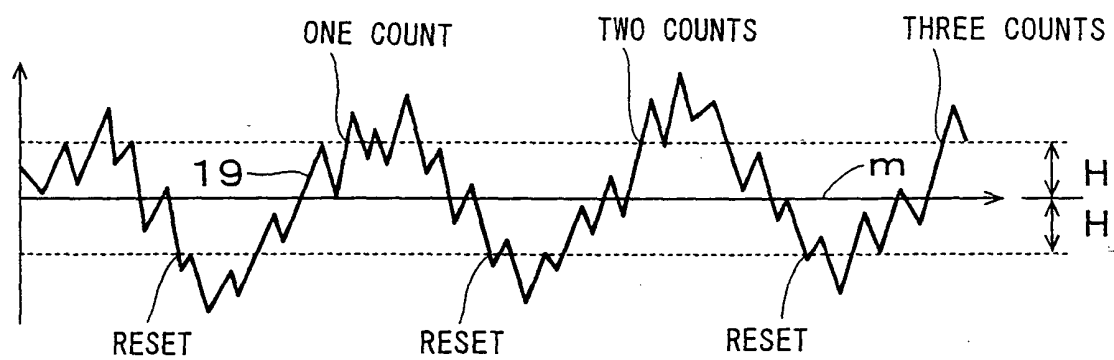
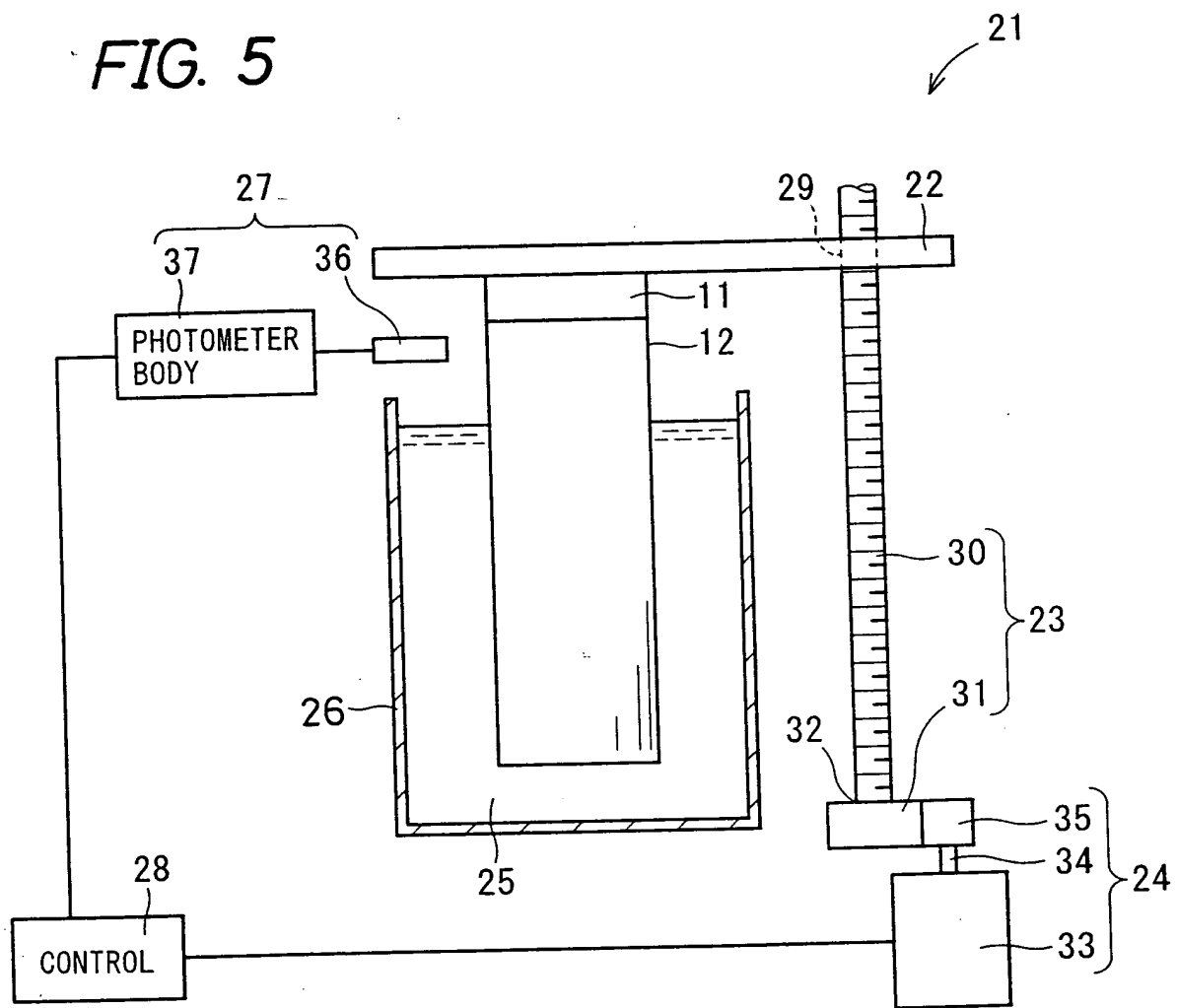


FIG. 5



*FIG. 6*

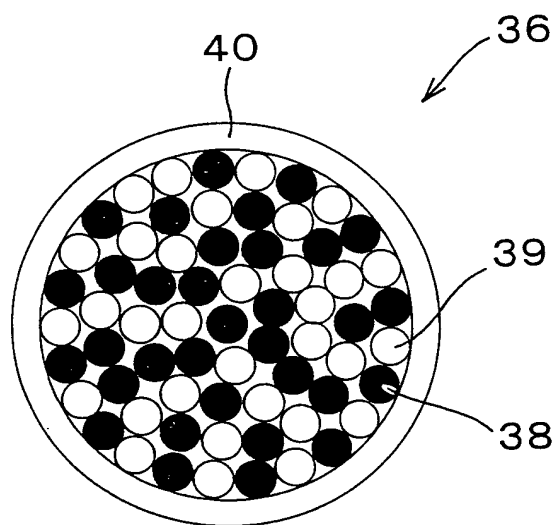


FIG. 7

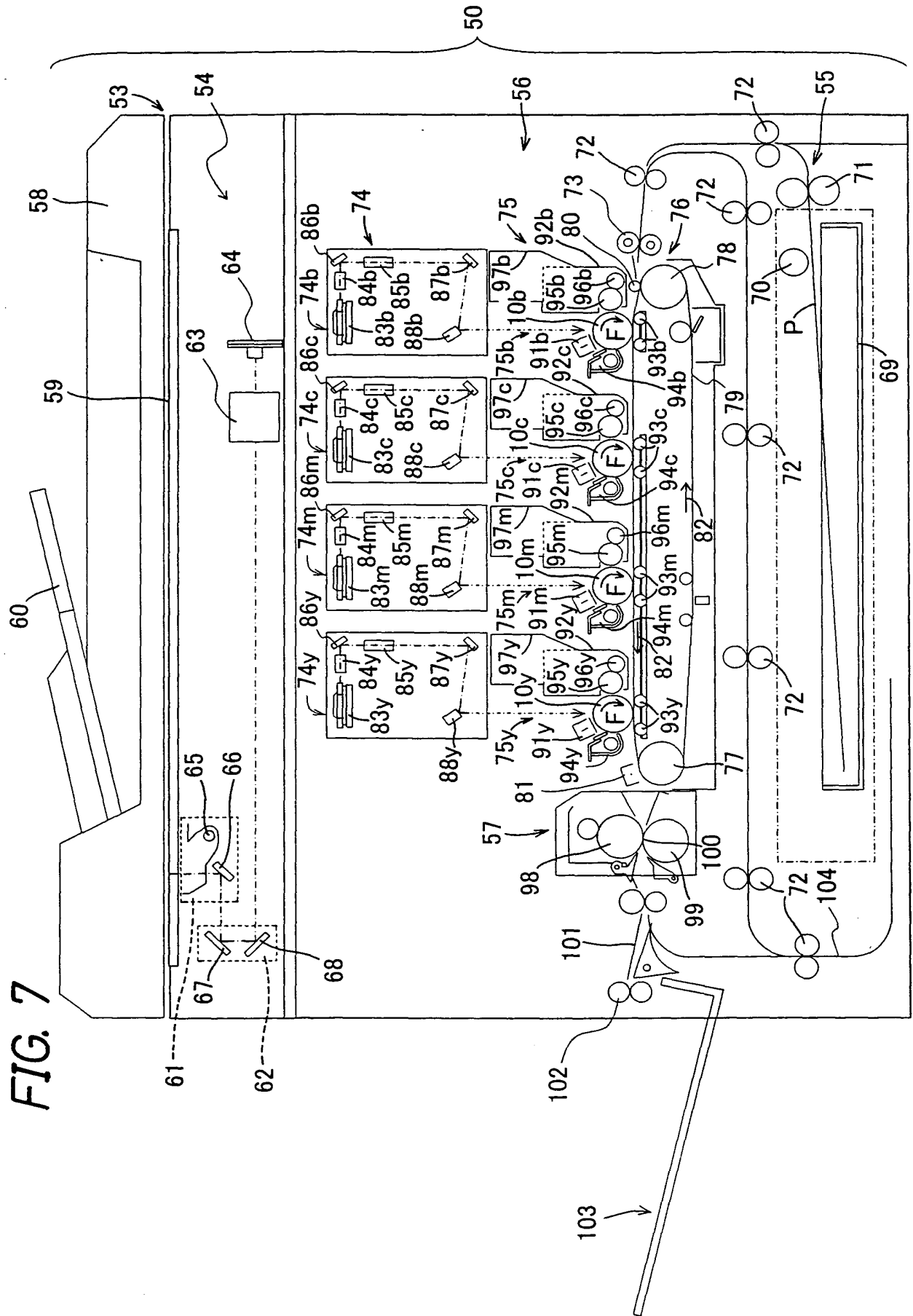
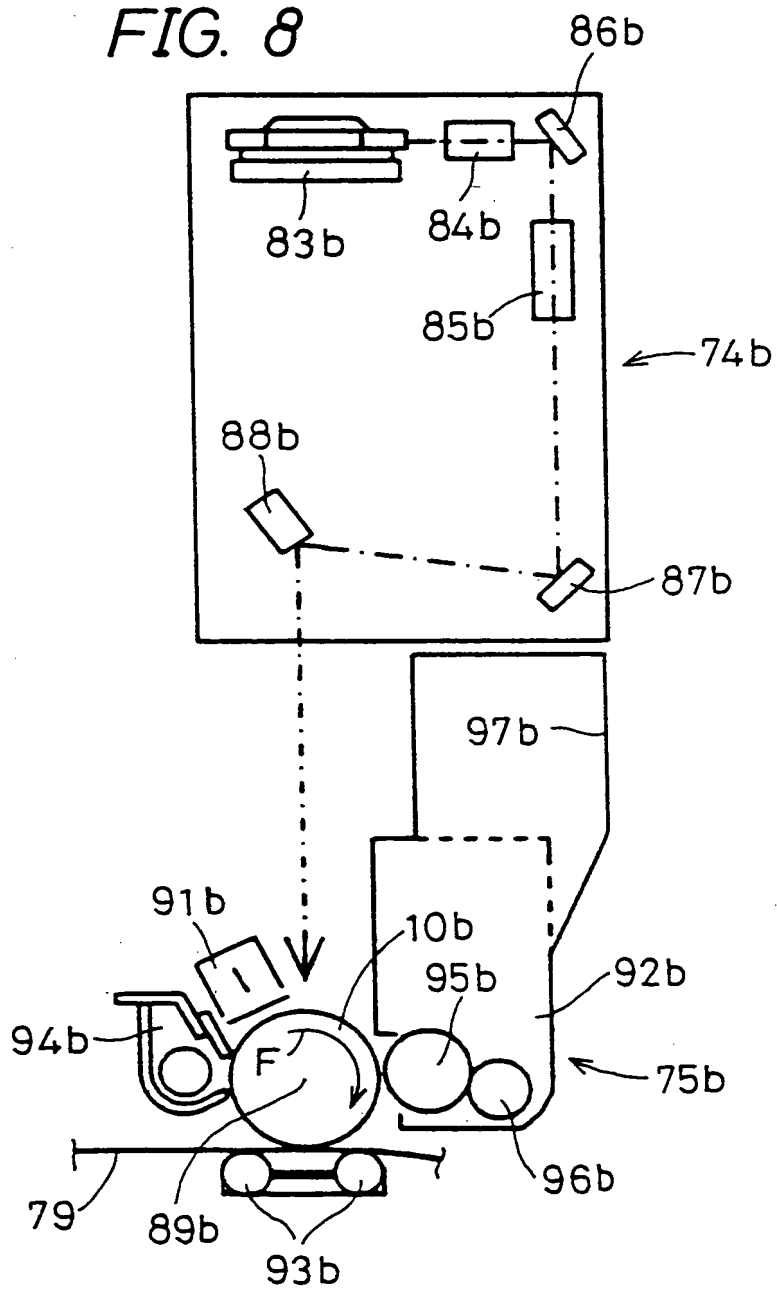
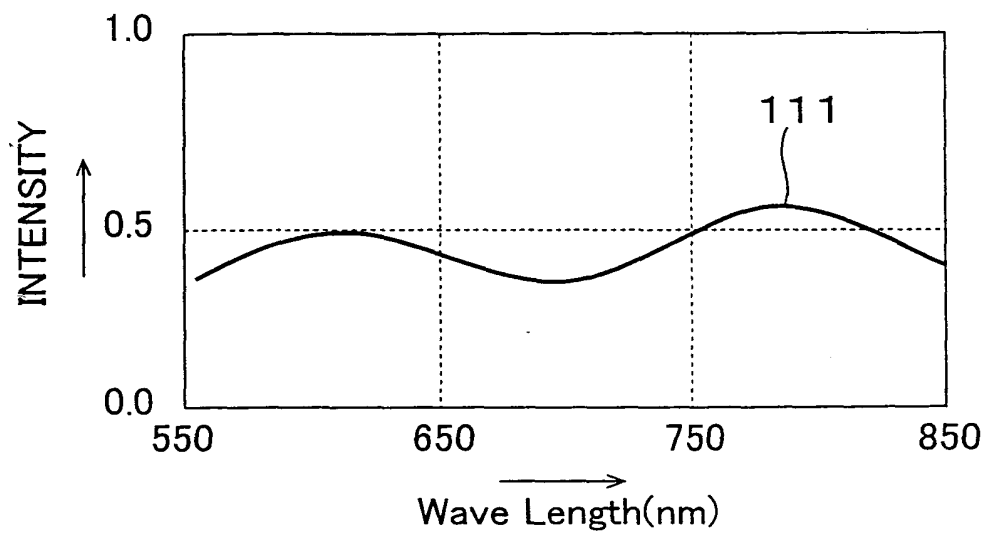


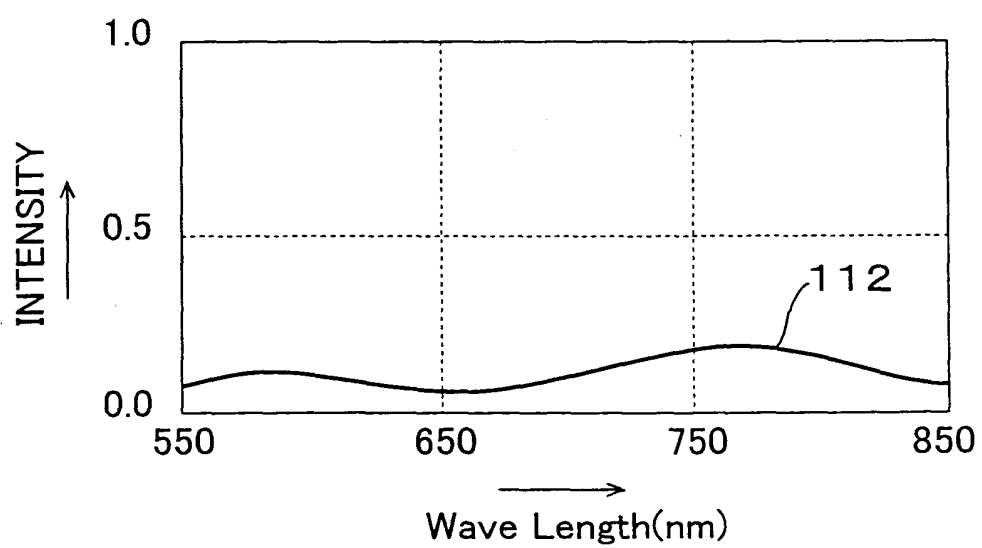
FIG. 8



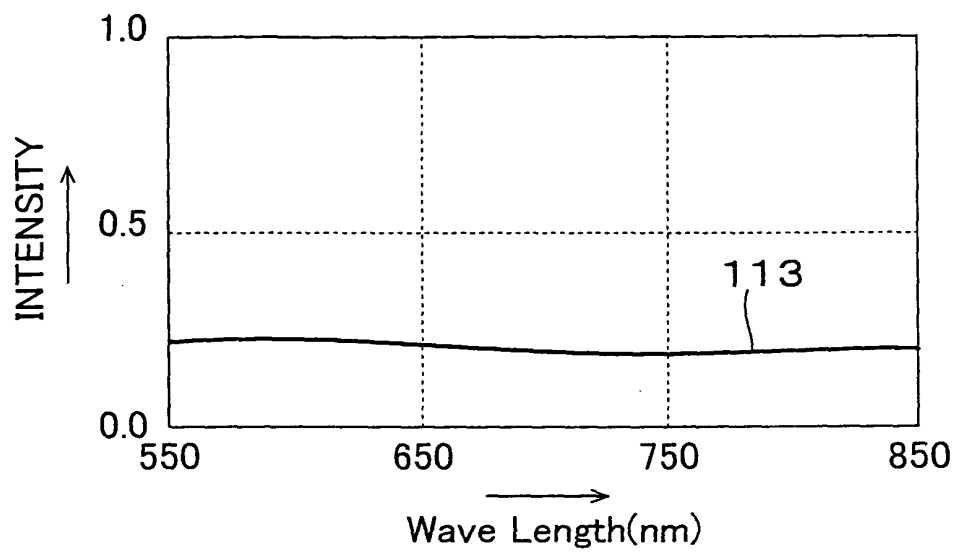
**FIG. 9**



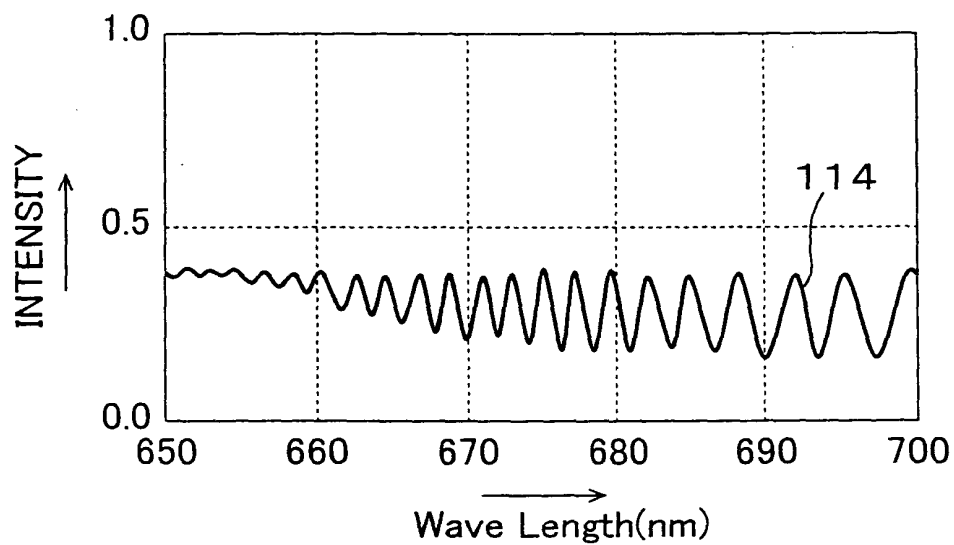
**FIG. 10**



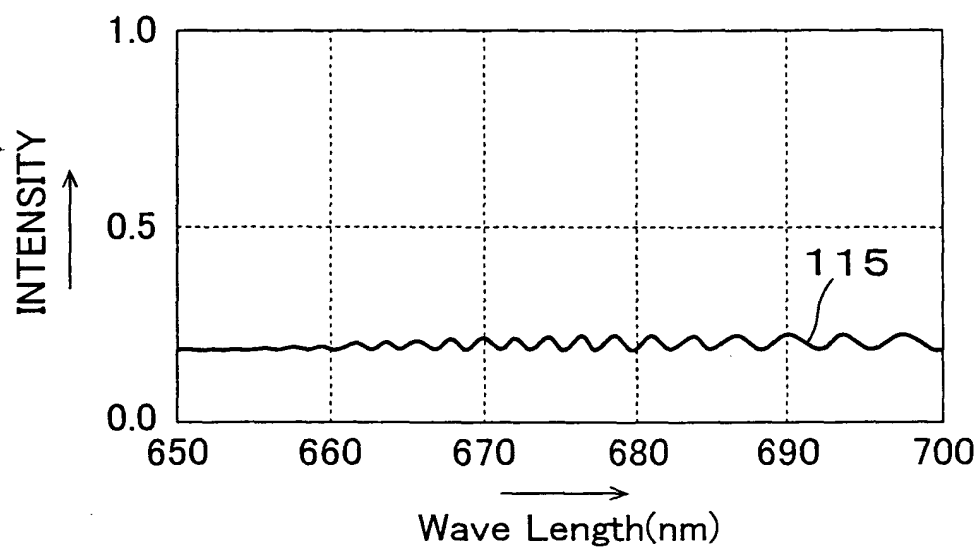
**FIG. 11**



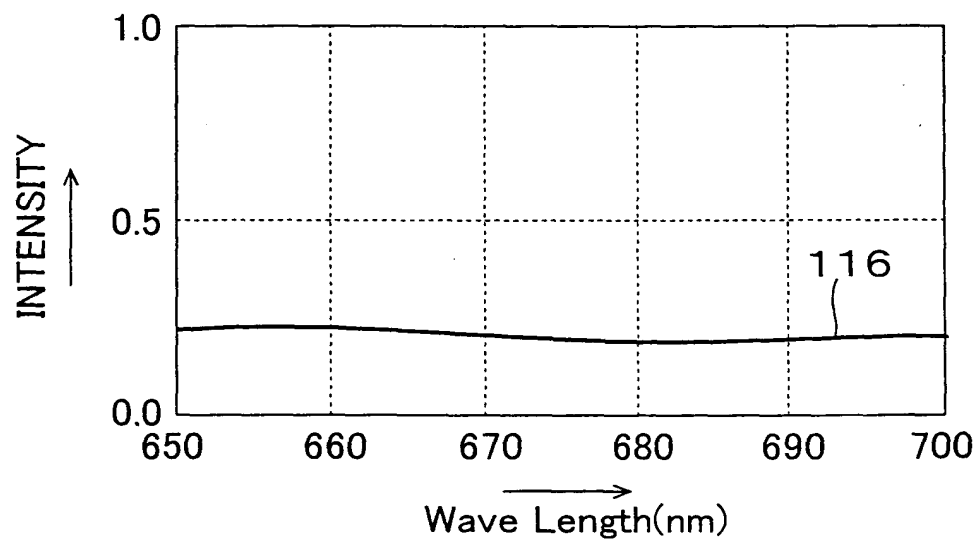
**FIG. 12**



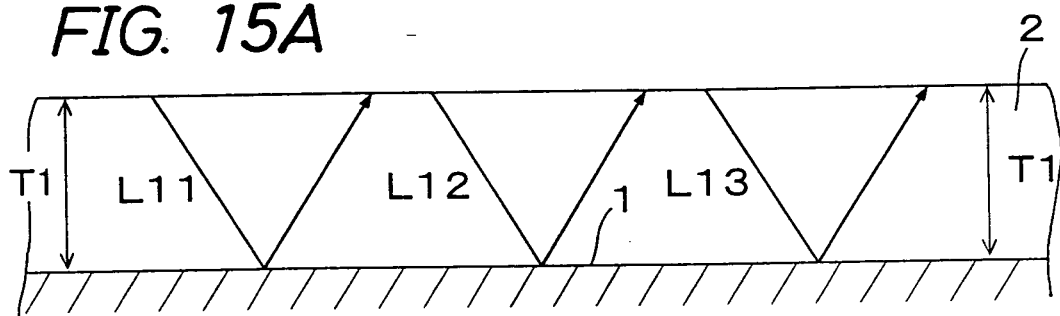
*FIG. 13*



*FIG. 14*



**FIG. 15A**



**FIG. 15B**

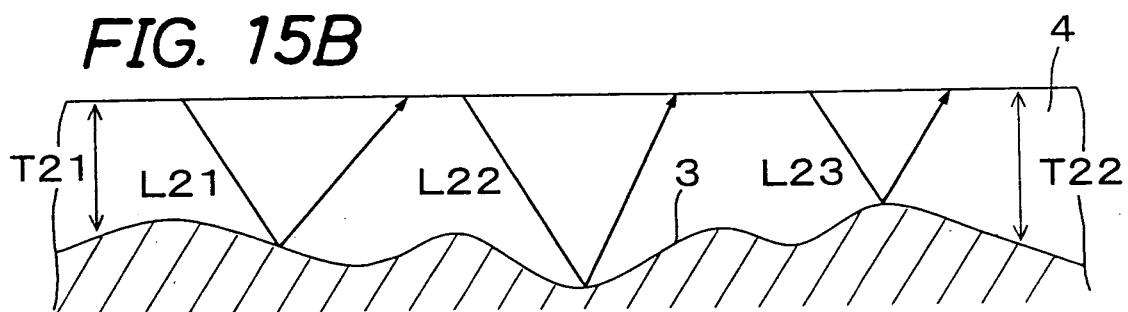


FIG. 16A

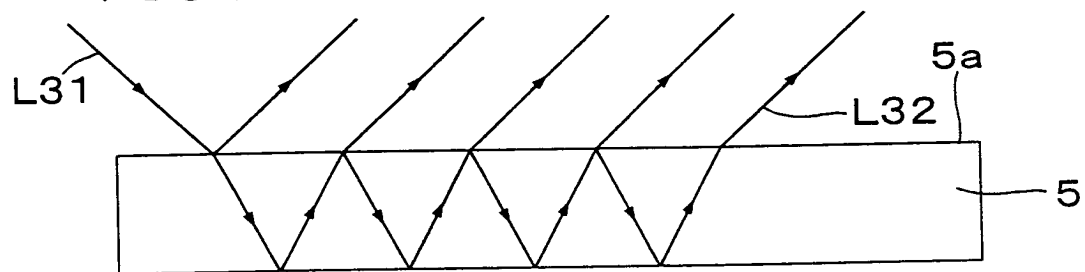


FIG. 16B

